

# **CURRICULUM VITA**

**William A. Suk**

## **PERSONAL DATA**

Director, Center for Risk and Integrated Sciences  
Director, Superfund Basic Research Program  
National Institute of Environmental Health Sciences  
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## **EDUCATION AND TRAINING**

Health Policy and Administration, M.P.H., 1990	University of North Carolina, School of Public Health, Chapel Hill, NC
Microbiology, Ph.D., 1977	George Washington University Medical Center, Washington, DC
National Science Foundation Fellow, 1970	Glaciological and Arctic Sciences Institute Juneau, AK, & Atlin, BC, Canada
Biology/Ecology, M.S., 1970	American University, Washington, DC
Biology/Physiology, B.S., 1968	American University, Washington, DC

## **PROFESSIONAL EXPERIENCE**

2003-Present	Director, Center for Risk and Integrated Sciences
1997-2003	Director, Office of Program Development
1987-Present	Director, Hazardous Substances Basic Research and Training Program
1993-1997	Chief, Chemical Exposures and Molecular Biology Branch
1987-1993	Program Director, Carcinogenesis and Molecular Biology Programs Molecular Intervention/Prevention Program Division of Extramural Research and Training

## National Institute of Environmental Health Sciences

- 1987            Advisor to the President  
Family Health International  
Research Triangle Park, NC
- 1981-1987      Senior Project Scientist/Head, Laboratory of Cellular and Molecular Biology  
Northrop Services, Inc.- Environmental Sciences Division  
Research Triangle Park, NC
- 1980-1981      Program Manager/Senior Research Scientist Geomet Technologies, Inc.  
Environmental and Occupational Health Division  
Rockville, MD
- 1976-1980      Staff Scientist, Laboratory of the Biology of Type C Viruses  
Biological Carcinogenesis Program  
Frederick Cancer Research Facility  
Frederick, MD
- 1971-1976      Assistant Project Director (1974-1976)  
Supervisory Technician (1972-1974)  
Senior Technician (1971-1972)  
Microbiological Associates, Inc.  
Bethesda, MD

## PROFESSIONAL ACTIVITIES

### Research Society Membership:

The American Public Health Association  
American Association for the Advancement of Science  
American Association for Cancer Research  
The American Society for Cell Biology  
Environmental Mutagen Society  
Foundation for Glaciological and Environmental Research  
Sigma Xi, The Scientific Research Society

### Academic Affiliation:

Member, the Lineberger Cancer Research Center, University of North Carolina School of Medicine, Chapel Hill, NC, 1983-1993.

### Academic Sabbatical:

A sabbatical of three months (June-August, 2006) at the Chulabhorn Research Institute, Bangkok, Thailand, focused on science-oriented issues, research needs and capacity-building while addressing the needs at the community, country, regional and international levels. Worked collaboratively with researchers on scientific and methodological approaches to understanding mechanisms by which chemical substances pose a risk to human health and the environment. Products from this sabbatical include a peer-reviewed manuscript, establishing collaborative relationships, and enhancing regional networks to identify and resolve key issues with regards to mechanistic research, exposure assessment, risk assessment, disease and public health.

### **Professional Committees (selective):**

NIH representative/Senior Scientific Advisor, Indo-U.S. Collaboration in Environmental and Occupational Health, India and the U.S., 2006-present.

Member, International Advisory Board, Chulabhorn Research Institute, Bangkok, Thailand, 2005-present

Vice-Chair, Environmental Exposure Technology Development subcommittee, American Gene-Environment Study (AGES), Office of Director, National Institutes of Health, 2004-present.

Member, Nanomedicine Roadmap Initiative, Office of Director, National Institutes of Health, 2003-present.

Co-Chair, Consultation on Scientific Principles and Methodologies for Assessing Health Risks in Children Associated with Chemical Exposures, World Health Organization, 2002- present

Member, Biomedical Information Science and Technology Initiative (BISTI), Office of Director, National Institutes of Health, 2000-present

Member, Bioengineering Consortium (BECON), Office of Director, National Institutes of Health, 1999-present; member, Subcommittee on Nanoscience and Nanotechnology, 1999-present

Member/Government Liaison, Advisory Council, Center for Children's Health and the Environment of the Pew Charitable Trusts, 1999-2004

Member, Health of the Oceans Panel, UNESCO/Intergovernmental Oceanographic Commission, 1999-2001

Member, Consultation on Methodology for Risk Assessment, International Programme on Chemical Safety, World Health Organization, 1998- present

Member, Interagency Planning Committee, Multiple Chemical Exposures and Veterans with Gulf War Illnesses, Office of the Secretary, Department of Health and Human Services, 1998-2000

Chair, Environmental Genome Project Planning and Implementation Committee, National Institute of Environmental Health Sciences, 1997-2004

Member, Board of Directors, Pacific Basin Consortium for Hazardous Waste Research and Management, 1996-2004; Chair, Board of Directors, 2000-2004

Member, Rat Genome Working Group, Office of the Director, National Institutes of Health, 1996-2002

Member, Committee on Promotions and Tenure, National Institute of Environmental Health Sciences, NIH, 1996-2001

Member, Interagency Work Group on Chemical Sensitivity, Office of the Secretary, Department of Health and Human Services, 1995-2000

Member, Interagency Coordinating Committee for U.S.-Mexico Border Health, Office of the Secretary, Department of Health and Human Services, 1994-present

Member, Children's Environmental Health Network National Advisory Council, 1992-1995; member, Research Subcommittee, 1995-2003.

Member, the Scientific Group on Methodologies for the Safety Evaluation of Chemicals (SGOMSEC), 1991-present

Member, Executive Committee, International Congress on Toxic Combustion By-Products, 1991- present; Chair, 7th International Congress, June, 2001

### **Professional Conferences/Workshops/Sessions (since 1995):**

Conference Co-Chair, "2<sup>nd</sup> International Conference on Environmental Health in Central & Eastern Europe," October 23-26, 2006, Bratislava, Slovakia.

Conference Co-Chair, "II International Conference: Healthy Environments, Healthy Children – Increasing Knowledge and Taking Action," November 14-16, 2005, Buenos Aires, Argentina.

Workshop Co-organizer, "International Workshop on the Use of Biomarkers in Children," November 17-18, 2005, Buenos Aires, Argentina.

Conference Co-Chair, “Central & Eastern European Environmental Health Conference: International Health Sciences Solving Common Problems,” October 24-27, 2004, Prague, Czech Republic.

Member, International Advisory Board, “The 5th Princess Chulabhorn International Science Congress: Evolving Genetics and Its Impact on the World,” August 16-20, 2004, Bangkok, Thailand.

Conference Co-Chair, “U.S.-Vietnam Scientific Workshop on Dioxin Screening, Remediation Methodologies and Site Characterization,” November 2-5, 2003, Hanoi, Vietnam.

Co-Chair, symposia on Children’s Environmental Health, at the “4th International Conference on Environmental Mutagens in Human Populations,” May 4-8, 2003, Florianopolis-SC, Brazil.

Chair, “Healthy Environments for Children: The Promotion of Collaborative Research,” February 2-6, 2003, Pattaya, Thailand.

Co-Chair, “WHO Scientific Principles and Methodologies for Assessing Health Risks in Children Associated with Chemical Exposures,” October 22-23, 2002, Gex, France.

Honorary Conference Chair, “WHO International Conference on Environmental Threats to the Health of Children: Hazards and Vulnerability,” and member, Scientific Organizing Committee, March 2-7, 2002, Bangkok, Thailand.

Invited Participant and session Chair, “Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxins,” March 4-8, 2002, Hanoi, Vietnam.

Conference Co-Chair, Scientific Group on Methodology for the Safety Evaluation of Chemicals (SGOMSEC) “Workshop No. 15: Methodologies for Assessing Exposures to Metals: Speciation, Bioaccessibility and Bioavailability in the Environment,” September 30-October 5, 2001, Schmallingenberg, Germany.

Conference Chair, “7th International Congress on Toxic Combustion By-Products: Origins, Fate and Health Effects,” June 4-6, 2001, Research Triangle Park, NC.

Session Co-Chair, “Genomics, Proteomics, Bioinformatics” at the Environmental Mutagen Society annual meeting, March 18, 2001, San Diego, CA.

Conference Co-Chair, “Application of Technology to Chemical Mixture Research,” January 9-11, 2001, Fort Collins, CO.

Conference Co-Chair, international conference on “Metals in Eastern and Central Europe: Health Effects, Sources of Contamination and Methods of Remediation,” November 8-10, 2000, Prague, Czech Republic.

Conference Co-Chair, Department of Health and Human Services/National Institutes of Health- and Department of State-sponsored “International Conference on Arctic Development, Pollution and Biomarkers of Human Health,” May 1-3, 2000, Anchorage, AK.

Conference Organizer, “Environmental Treats to the Health of Children,” April 9-11, 2000, Manila, Philippines.

Conference Organizer/Session Chair, international conference on “Oceans and Human Health,” November 16-19, 1999, Bermuda Biological Station for Research, Ferry Reach, Bermuda.

Conference Co-Organizer, “Organochlorine Contamination in Eastern and Central Europe,” September 19-22, 1999, Balatonfoldvar, Hungary.

Conference Organizer/Session Chair, “Environmental Influences on Children: Brain, Development, and Behavior,” May 24-25, 1999, New York, NY.

Conference Organizer/Session Chair, “Ethical, Legal and Social Implications of Genomic Research on Populations Exposed to Environmental Toxins,” November 13-14, 1998, Boston, MA.

Conference Organizer/Session Chair, “United States/Mexico Conference on Hazardous Waste Management and Technologies,” August 9-11, 1998, Tucson, AZ.

Member, International Organizing Committee/Session Chair, “Second International Symposium on Metals and Genetics,” May 26-29, 1998, Toronto, Canada.

Conference Organizer/Session Chair, “Environmental Exposures and Male Reproductive Health,” May 14-15, 1998, New York, NY.

Member, Technical Program Committee, “1998 Pacific Basin Conference on Hazardous Waste,” April 20-24, Honolulu, HI.

Conference Organizer/Session Chair, “Changing Environmental Exposures and Consequences in Human Disease Rates,” March 23-24, 1998, Cambridge, MA.

Conference Organizer/Session Chair, “International Conference on Health Effects of Hazardous Waste Remediation Technologies in Central and Eastern Europe,” November 16-20, 1997, Prague, Czech Republic.

Conference Chair, “Superfund Basic Research Program: A Decade of Improving Health through Multi-Disciplinary Research,” February 23-26, 1997, Chapel Hill, NC.

Working Group Co-Chair, "U.S.-Mexico-Canada Research Development Workshop on Precursors and Consequences of Emerging and Re-emerging Infectious Diseases in North America," September 17-19, 1997, Bethesda, MD.

Conference Co-Chair/Speaker, "Current Issues on Chemical Mixtures," August 11-13, 1997, Ft. Collins, CO.

International Conference Chair, "1996 Pacific Basin Conference on Hazardous Waste," November 4-8, Kuala Lumpur, Malaysia.

Conference Co-Chair/Speaker, "Modulation of Chemical Toxicity and Risk Assessment," June 9-12, 1996, Tucson, AZ.

Conference Organizer/Session Chair, "International Conference on Environmental Pollution and Child Health: Critical Needs and Issues for Central and Eastern Europe," May 8-10, 1996, Sosnowiec, Poland.

Conference Organizer, "Principles and Processes for Evaluating Endocrine Disruption in Wildlife," March 16-19, 1996, Kiawah Island, SC.

Conference Organizer/Session Chair, "4th International Congress on Toxic Combustion By-Products," June 5-7, 1995, Berkeley, CA.

Steering Committee Member, "International Congress on Hazardous Waste: Impact on Human and Ecological Health," June 5-8, 1995, Atlanta, GA.

Conference Organizer/Technical Session Committee Member/Session Chair, "1995 Pacific Basin Conference on Hazardous Waste," May 7-12, 1995, Edmonton, Alberta, Canada.

International Organizing Committee Member, "U.S.-Mexico Workshop on Environmental Health," March 26-28, 1995, Mexico City, Mexico; Session Chair, "Hazardous Wastes and Health" and Workshop Co-chair on the same topic.

Session Chair and Moderator, Health Effects from Exposures to Hazardous Wastes: Research Needs, at the "Symposium on Health Research and Needs to Ensure Environmental Justice," February 10-12, 1994, Arlington, VA.

Organizer/Technical Session Committee Member/Session Chair on "Human Health Effects" at the 1993 Pacific Basin Conference on Hazardous Waste Research, November 8-12, 1993, East-West Center, Honolulu, HI.

Conference Co-Chair, "Napa Conference on Genetic and Molecular Ecotoxicology," October 12-15, 1993, Yountville, CA.

National Workshop Organizer, “Workshop on Pediatric Environmental Health,” June 24-25, 1993, National Institute of Environmental Health Sciences, Research Triangle Park, NC.

## **HONORS AND AWARDS**

DHHS Secretary’s Award for Distinguished Service for dedicated support for the health and safety of victims of Hurricanes Katrina and Rita along the Gulf Coast, 2006

U.S. Public Health Service, National Institutes of Health Merit Award, 2005

U.S. Public Health Service, National Institutes of Health Director’s Award, 2005

International Advisory Board, Chulabhorn Research Institute, Bangkok, Thailand, 2005

Fellow, Collegium Ramazzini, 2004

U.S. Public Health Service, National Institutes of Health Merit Award, 2004

U.S. Public Health Service, National Institutes of Health Director’s Award, 2004

*Commendation:* On behalf of the people of the State of Hawaii in recognition for valuable contributions to children’s environmental health, 2004

U.S. Public Health Service, National Institutes of Health Merit Award, 2003

The Roy E. Albert Memorial Award for Translational Research in Environmental Health, from the University of Cincinnati, 2003

World Health Organization *Certificate of Recognition*: Honorary Chair, International Conference on Environmental Threats to the Health of Children: Hazards and Vulnerability, March 2-7, 2002, Bangkok, Thailand

U.S. Public Health Service, National Institutes of Health Merit Award, 2002

U.S. Public Health Service, National Institutes of Health Director’s Award, 2002

U.S. Public Health Service, National Institutes of Health Merit Award, 2001

U.S. Public Health Service, National Institutes of Health Director’s Merit Award, 2001

U.S. Public Health Service, National Institutes of Health Award in Recognition and Appreciation of Special Achievement, 2001

U.S. Public Health Service, National Institutes of Health, Director’s Award, 2000

U.S. Public Health Service, National Institutes of Health Award in Recognition and Appreciation of Special Achievement, 2000

U.S. Public Health Service, National Institutes of Health Merit Award, 1999

U.S. Public Health Service, National Institutes of Health, Director's Award, 1999

Center for Disease Control and Prevention, National Center for Environmental Health, Director's Award, 1999

U.S. Public Health Service, National Institutes of Health Merit Award, 1998

U.S. Public Health Service, National Institutes of Health Award in Recognition and Appreciation of Special Achievement, 1997

U.S. Public Health Service, National Institutes of Health Award in Recognition and Appreciation of Sustained High Quality Work Performance, 1996

U.S. Public Health Service, National Institutes of Health Merit Award, 1992

U.S. Public Health Service, National Institutes of Health Award in Recognition and Appreciation of Special Achievement, 1991

National Science Foundation Fellow, 1970

Sigma Xi, 1977-Present

## **EDITORIAL AND PEER-REVIEW ACTIVITIES**

International Editorial Board, 2005-present, *Nanomedicine*.

International Advisory Board, 2002-present, *Toxicology and Environmental Chemistry*.

International Advisory Board, 2001-present, *International Journal of Occupational Medicine and Environmental Health*.

Book reviewer, 1999, Taylor & Francis Ltd, *Genes and the Environment* by Roy H. Burdon

International Contributing Editor, 1997 - present, *Central European Journal of Public Health*.

Member, *Ad Hoc* Review Committee for establishment of a research grants program in chemical and biological remediation, Army Research Office, Department of Defense, 1995-1997.



Ad Hoc Grant and Contract Reviewer: Department of Energy, 1987, 1991, 1994.

Ad Hoc Grant and Contract Reviewer: U.S. Environmental Protection Agency, 1984-1985, 1989, 1994.

Editorial Board, 1992 - 2005, *Environmental Health Perspectives*.

Scientific Review of Contract Proposals: National Institute of Environmental Health Sciences, National Cancer Institute, National Institute of Allergy and Infectious Diseases, 1981-1987.

Scientific Review of Grant Proposals, Site Visits, and Special Study Sections: National Institute of Environmental Health Sciences, National Cancer Institute, Fogarty International Center, 1981-1987.

Ad hoc reviewer Journals: *Science*, *International Environmental Health*, *Environmental and Molecular Mutagenesis*, *In Vitro Cellular and Developmental Biology*, *Cancer Research*, *Asia Pacific Issues*, *European Journal of Oncology*, 1977-present.

## PUBLICATIONS

### Peer-Reviewed Publications (selective, since 1992):

Balshaw, D. M., B. Hammock, G. Lucier, J. MacGregor, P. Mendes, J. Nicholson, K. Ramos, D. Roche, S. Sechi, S. Sumner, R. Tennant, B. Weis, and **W. A. Suk**. In Press. Application of Metabolomics to Toxicology and Risk Reduction. *Environmental Health Perspectives*.

Beyer, R.P., R.C. Fry, M.R. Lasarev, L.A. McConnachie, L. B. Meira, V. Palmer, C.L. Powell, P.K. Ross, T.K. Bammler, B.U. Bradford, A.B. Cranson, M. Cunningham, R.D. Fannin, G.M. Higgins, M. Humble, P. Hurban, R.J. Kayton, K.F. Kerr, O. Kosyk, E. K. Lobenhofer, S.O. Sieber, P.A. Vliet, B.K. Weis, R. Wolfinger, C.G. Woods, J.H. Freedman, E. Linney, W.K. Kaufmann, T.J. Kavanagh, R.S. Paules, I. Rusyn, L. D. Samson, P. Spencer, **W. A. Suk**, R. J. Tennant, and Helmut Zarble. 2007. Multicenter Study of Acetaminophen Hepatotoxicity Reveals the Importance of Biological Endpoints in Genomic Analysis. *Toxicological Sciences*. Vol. 99, No.1: 326-337

Hennig, B., L. Ormsbee, L. Bachus, A. Silverstone, J. Milner, D. Carpenter, **C. Thompson**, and **W.A. Suk**. 2007. Introductory Comments: Nutrition, Environmental Toxins and Implications in Prevention and Intervention of Human Diseases. *J. Nutritional Biochemistry*. Vol. 18: 161-162.

Pezzoli, K., R. Tukey, H. Sarabia, I. Zaslavsky, M.L. Miranda, **A. Suk**, A. Lin, and M. Ellisman. 2007. The NIEHS Environmental Health Sciences Data Resource Portal: Placing Advanced Technologies in Service to Vulnerable Communities. *Environmental Health Perspectives*. Vol.115, No.4: 564-571.

Hennig, B., A.S. Ettinger, R.J. Jandacek, S. Koo, C. McClain, H. Seifried, A. Silverstone, B. Watkins, C. Thompson, and **W. A. Suk**. 2007. Using Nutrition for Intervention and Prevention Against Environmental Chemical Toxicity and Associated Diseases. *Environmental Health Perspectives*. Vol. 115, No.4: 493-495.

Carpenter, D.O., S. El-Qaderi, D. Fayzieva, A. Giliani, A. Hambartsumyan, K. Herz, M. Isobaev, O. Kasymov, R. Kudyakov, Z. Majitova, E. Mamadov, L. Nemer, B. Revich, P. Stege, **W. Suk**, R. Upshur, B. Yilmaz, and K. Zaineh. 2006. Children's Environmental Health in Central Asia and the Middle East. *International Journal of Occupational & Environmental Health*. Vol.12: 362-368.

Wilson, S. H. and **W. A. Suk**. 2005. Framework for Environmental Exposure Research: The Disease-First Approach. *Molecular Interventions*. Vol. 5, Issue 5: 262-267.

Balshaw, D.M., M. Philbert, and **W. A. Suk**. 2005. Research Strategies for Safety Evaluation of Nanomaterials, Part III: Nanoscale Technologies for Assessing Risk and Improving Public Health. *Toxicological Science*. Vol. 88, No. 2: 298-306.

Theodore B., R.P. Beyer, S. Bhattacharya, G. A. Boorman, A. Boyles, B.U. Bradford, R. E. Bumgarner, P.R. Bushel, K. Chaturvedi, D. Choi, M.L. Cunningham, S. Deng, H.K. Dressman, R.D. Fannin, F.M. Farin, J.H. Freedman, R.C. Fry, A. Harper, M.C. Humble, P. Hurban, T.J. Kavanagh, W.K. Kaufmann, K.F. Kerr, L. Jing, J.A. Lapidus, M.R. Lasarev, J.Li, Y-J. Li, E.K. Lobenhofer, X.Lu, R.L. Malek, S.Milton, S.R. Nagalla, J.P. O'Malley, V.S. Palmer, P.Pattee, R.S. Paules, C.M. Perou, K.Phillips, L-X. Qin, Y.Qiu, S.D. Quigley, M. Rodland, I. Rusyn, L.D. Samson, D.A. Schwartz, Y. Shi, J-L. Shin, S.O. Sieber, S.Slifer, M.C. Speer, P.S. Spencer, D.I. Sproles, J.A. Swenberg, **W.A. Suk**, R. C. Sullivan, R.Tian, R.W. Tennant, S.A. Todd, C.J. Tucker, B.Van Houten, B.K. Weis, S. Xuan, and H. Zarbl. 2005. Standardizing Global Gene Expression Analysis Between Laboratories and Across Platforms. *Nature Methods*. Vol. 2, No. 5: 351-356.

Weis, B., D. Balshaw, J. Barr, D. Brown, M. Ellisman, P. Liroy, G. Omenn, J. Potter, M. Smith, L. Sohn, **W. A. Suk**, S. Sumner, J. Swenberg, D. Walt, S. Watkins, C. Thompson, and S. Wilson. 2005. Personalized Exposure Assessment: Enabling Future Population-Based Environmental Research. *Environmental Health Perspectives*. Vol. 113, No. 7: 840-848.

Hansen, L., M. Machala, L. Fischer, M. James, B. Hennig, H. Glauert, J.-F. Narbonne, L. van Bree, T. Schultz, P. Grevatt, **W. Suk**, I. Holoubek, and L. Robertson. 2005. Research Needs Identified at the Second PCB Workshop in Brno, Czech Republic. *Toxicological & Environmental Chemistry*. Vol. 87(3): 261-265.

Hennig, B., M. Toborek, L.B. Bachas, and **W. A. Suk**. 2004. Emerging Issues: Nutritional Awareness in Environmental Toxicology. *Journal of Nutritional Biochemistry* 15: 194-195.

**Suk, W.A.**, M. Avakian, D. Carpenter, J. D. Groopman, M. Scammell, and C. P. Wild. 2004. Human Exposure Monitoring and Evaluation in the Arctic: The Importance of Understanding Exposures to the Development of Public Health Policy. *Environmental Health Perspectives*. Vol. 112, No. 2: 113-120.

**Suk, W.A.**, K. Murray, and M.D. Avakian. 2003. Environmental Hazards to Children's Health in the Modern World. *Mutation Research*. Vol. 544 (2-3): 235-242.

**Suk, W.A.** and K. Olden. 2003. Multidisciplinary Research: Strategies for Assessing Chemical Mixtures to Reduce Risk of Exposure and Disease. *European Journal of Oncology*. Vol. 2: 133-142.

Lawler, C., **W.A. Suk**, B.P. Pitt, C.M. St. Croix, and S.C. Watkins. 2003. Multimodal Optical Imaging. *American Journal of Physiology*. Vol. 285: L269-L280.

**Suk, W.A.**, K. M. Ruchirawat, K. Balakrishnan, M. Berger, D. Carpenter, T. Damstra, J. Pronczuk de Garbino, D. Koh, P.J. Landrigan, I. Makalinao, P.D. Sly, Y. Xu, and B. S. Zheng. 2003. Environmental Threats to Children's Health in Asia and the Western Pacific. *Environmental Health Perspectives*. Vol. 111, No. 10: 1340-1347.

Goldstein, B., W. Klein, and **W. Suk**. 2003. SGOMSEC 15--Methodologies for Assessing Exposures to Metals: Speciation, Bioaccessibility, and Bioavailability in the Environment, Food and Feed. *Ecotoxicology and Environmental Safety*. Vol. 56, No. 1: 3-6.

**Suk, W.A.**, K. Olden, and R.S.H. Yang. 2002. Chemical Mixtures Research: Significance and Future Perspectives. *Environmental Health Perspectives*. Vol. 110, Suppl 6: 891-892.

Avakian, M., B. Dellinger, H. Fiedler, B. Gullet, C. Koshland, S. Marklund, G. Oberdorster, S. Safe, A. Sarofim, K.R. Smith, D. Schwartz, and **W.A. Suk**. 2002. The Origin, Fate, and Health Effects of Combustion By-Products: A Research Framework. *Environmental Health Perspectives*. Vol. 110, No.11: 1155-1162.

Knap, A., E. Dewailly, C. Furgal, J. Galvin, D. Baden, R. E. Bowen, M. Depledge, L. Duguay, L.E. Fleming, T. Ford, F. Moser, R. Owen, **W.A. Suk**, and U. Unluata. 2002. Indicators of Ocean Health and Human Health: A Research Framework. *Environmental Health Perspectives*. Vol. 110, No. 9: 839-845.

Anderson, B., C. Thompson, and **W.A. Suk**. 2002. The Superfund Basic Research Program - making a difference - past, present, and future. *International Journal of Hygiene and Environmental Health*. Vol. 205 (1-2): 137-141.

**Suk, W.A.**, Carpenter, D.O., M. Cikrt, and Z. Smerhovsky. 2001. Metals in Eastern and Central Europe: Health Effects, Sources of Contamination and Methods of Remediation. *International Journal of Occupational Medicine and Environmental Health*. Vol. 14, No. 2: 151-155.

Christiani, D.C., R.R. Sharp, G.W. Collman, and **W.A. Suk**. 2001. Applying Genomic Technologies in Environmental-Health Research: Challenges and Opportunities. *Journal of Occupational and Environmental Medicine*. Vol. 43, No. 6: 526-533.

Moline, J., A. Golden, B-C. Natan, E. Smith, M.E. Rauch, R. E. Chapin, S. Perreault-Darney, S. Schrader, **W.A. Suk**, and P.J. Landrigan. 2000. Exposure to Hazardous Substances and Male Reproductive Health: A Research Framework. *Environmental Health Perspectives*. Vol. 108, No. 9: 803-813.

Carpenter, D.O., F. T. Chew, L.H. Lam, P.J. Landrigan, I. Makalinao, G.L. Peralta, and **W. A. Suk**. 2000. Environmental Threats to the Health of Children: The Asian Perspective. *Environmental Health Perspectives*, Vol. 108, No. 10: 989-992.

**Suk, W.A.**, B.E. Anderson, C.L. Thompson, D.A. Bennett, and D.C. VanderMeer. 1999. Creating Multidisciplinary Research Opportunities: A unifying framework model helps researchers to address the complexities of environmental problems. *Environmental Science and Technology*, Vol. 4, No.6: 241-244.

Landrigan, P.J., **W.A. Suk**, and R.W. Amler. 1999. Chemical Wastes, Children's Health and The Superfund Basic Research Program. *Environmental Health Perspectives*, Vol 107, No. 6: 423-427.

Carpenter, D. O., M. Cirk, and **W. A. Suk**. 1999. Hazardous wastes in Eastern and Central Europe: Technology and Health Effects. *Environmental Health Perspectives*, Vol. 107, No.4: 249-250.

Anderson, B.E., K. Olden, and **W.A. Suk**. 1998. Hazardous Waste and Global Environmental Health. *Proceedings of the 1998 Pacific Basin Conference on Hazardous Waste*: 13-18.

Carpenter, D.O., K. Blaha, A. Buekens, M. Cirk, T. Damstra, B. Dellinger, A. Sarofim, **W.A. Suk**, H. Wyes, J. Zejda. 1998. Remediation of Hazardous Wastes in Central and Eastern Europe: Technology and Health Effects. *Central European Journal of Public Health*, Vol. 6, No. 2: 77-78.

**Suk, W.A.** 1998. Children as a Particularly Vulnerable Population to Exposure to Hazardous Environmental Contamination. *Central European Journal of Public Health*, Vol. 6, No. 2: 164-167.

Landrigan, P.J., J.E. Carlson, C.F. Bearer, J.S. Cranmer, R. Bullard, R.A. Etzel, J. Groopman, J.A. McLachlan, F.P. Perera, J.R. Reigart, L. Robinson, L. Schell, and **W.A. Suk**. 1998. Children's Health and the Environment: A New Agenda for Prevention Research. *Environmental Health Perspectives*, Vol. 106, Supplement 3: 787-794.

**Suk, W.A.** and G.W. Collman. 1998. Genes and the Environment: Their Impact on Children's Health. *Environmental Health Perspectives*, Vol. 106, Supplement 3: 817-820.

Fitzgerald, E.F., L.M. Schell, E.G. Marshall, D.O. Carpenter, **W.A. Suk**, and J.E. Zejda. 1998. Environmental Pollution and Child Health in Central and Eastern Europe. *Environmental Health Perspectives*, Vol. 106, No. 6: 307-311.

**Suk, W.A.** and K. Olden. 1996. Environmental Health and Hazardous Waste: Research, Policy and Needs. *Current World Leaders, International Issues*, Vol. 39, No.6: 11-24.

- Suk, W.A.** 1996. Review of the Pacific Basin Conference and Future Outlooks. *Proceedings of the 1996 Pacific Basin Consortium on Hazardous Waste Research and Management*: 71-74.
- Anderson, B.E., B. Blackard, and **W.A. Suk**. 1996. Linking Emerging Hazardous Waste Technologies with the Electronic Information Era. *Proceedings of the 1996 Pacific Basin Consortium on Hazardous Waste Research and Management*: 529-537.
- Carter, D.E., C. Pena, R. Varady, and **W.A. Suk**. 1996. Environmental Health and Hazardous Waste Issues Related to the U.S.- Mexico Border. *Environmental Health Perspectives*, Vol. 104: 590-594.
- Carpenter, D.O., **W.A. Suk**, K. Blaha, and M. Cikrt. 1996. Hazardous Wastes Issues in Eastern and Central Europe. *Environmental Health Perspectives*, Vol. 104: 244-248.
- Suk, W.A.** and S. Safe. 1995. Toxicity and Health-Effects of Combustion By-Products. *Toxicological and Environmental Chemistry*, Vol. 49: 129-130.
- Suk, W.A.** 1995. The NIEHS Superfund Basic Research Program: Overview and Areas of Future Research Expansion and Future Directions. *Environmental Health Perspectives*, Vol. 103, Suppl 1: 3-5.
- Young, L., and **W.A. Suk**. 1995. Biodegradation: Its Role in Reducing Toxicity and Exposure to Environmental Contaminants. Introduction. *Environmental Health Perspectives*, Vol. 103, Suppl 5: 3.
- Anderson, S. L., L. Shugart, W. Sadinski, P. Brussard, M. DePledge, T. Ford, J. Hose, J. Stegeman, **W.A. Suk**, I. Wirgin, and G. Wogan. 1994. Genetic and Molecular Ecotoxicology: A Research Framework. *Environmental Health Perspectives*, Vol. 102, Suppl 12: 3-8.
- Suk, W.A.** 1994. Superfund Basic Research Program Meeting Reports: Introduction. *Environmental Health Perspectives*, Vol. 102, Suppl 1: 219-220.
- Smith, M.T., and **W.A. Suk**. 1994. Application of Molecular Biomarkers in Epidemiology. *Environmental Health Perspectives*, Vol. 102, Suppl 1: 229-235.
- Aust, S.D., A. Bourguin, J. Salanitro, **W.A. Suk**, and J.A. Tiedje. 1994. Biodegradation of Hazardous Wastes. *Environmental Health Perspectives*, Vol. 102, Suppl 1: 245-252.
- Kamrin, M.A., L.J. Fischer, **W.A. Suk**, J.R. Fouts, E. Pellizzari, and K. Thornton. 1994. Assessment of Human Exposure to Chemicals from Superfund Sites. *Environmental Health Perspectives*, Vol. 102, Suppl 1: 221-228.
- Sarofim, A.F., and **W.A. Suk**. 1994. Health Effects of Combustion By-Products. *Environmental Health Perspectives*, Vol. 102 Suppl 1: 237-244.

**Suk, W.A.**, and B.E. Anderson. 1993. The National Institute of Environmental Health Sciences' Superfund Basic Research Program: A Model Basic Research Program for the 21st Century. *Proceedings of the Pacific Basin Conference on Hazardous Waste*, Vol 4, No. 1: 25-38.

**Suk, W.A.** 1992. National Institute of Environmental Health Sciences Superfund Basic Research Program. *Microbial Clean-up*, Vol. 1, No. 3:6-8.

### **Books/Monographs Edited:**

Young, L., G. Kukor, **W.A. Suk**, eds. 2005. Bioremediation and Biodegradation: Current Advances in Reducing Toxicity, Exposure and Environmental Consequences. A series of articles published in *Environmental Health Perspectives* that came out of the Asilomar Conference (June , 2002, Asilomar, Pacific Grove, CA) of the same name.

Goldstein, B., W. Klein, and **W.A. Suk**, eds. 2003. Methodologies for Assessing Exposures to Metals: Speciation, Bioaccessibility, and Bioavailability in the Environment, Food, and Feed. *Ecotoxicology and Environmental Safety* (special issue). Vol. 56, No. 1.

Yang, R.S.H. and **W.A. Suk**, eds. 2002. Application of Technology to Chemical Mixture Research. *Environmental Health Perspectives*. Vol. 110, Suppl. 6.

Wilson, S.W. and **W.A. Suk**, eds. 2002. Biomarkers of Environmentally Associated Disease. CRC Press LLC/Lewis Publishers, Boca Raton, FL.

Costa, M., M.A. Zoroddu, **W.A. Suk**, C. Thompson, and T. Rossman, eds. 2002. Third International Meeting on the Molecular Mechanisms of Metal Toxicity and Carcinogenicity. *Environmental Health Perspectives*, Vol.110, Suppl. 5.

Landrigan, P., B. Weiss, L.R. Goldman, D.O. Carpenter and **W.A. Suk**, eds. 2000. Environmental Influences on Children: Brain, Development and Behavior. *Environmental Health Perspectives*, Vol. 108, Suppl. 3.

Yang, R.S.H, and **W.A. Suk**, eds. 1998. Current Issues on Chemical Mixtures. *Environmental Health Perspectives*, Vol. 106, Suppl. 4.

**Suk, W.A.**, ed. 1998. Integrated Approaches for Studying Hazardous Substances. *Environmental Health Perspectives*, Vol. 106, Suppl. 4.

Kendall, R., R. Dickerson, J. Giesy, and **W. Suk**, eds. 1998. Principles and Processes for Evaluating Endocrine Disruption in Wildlife. Society of Environmental Toxicology and Chemistry Press, Pensacola, FL.

Young, L., and **W.A. Suk**, eds. 1995. Biodegradation: Its Role in Reducing Toxicity and Exposure to Environmental Contaminants. *Environmental Health Perspectives*, Vol. 103, Suppl. 5.

Jackson, R., R. Reigart, L. Goldman, J. Carlson, C. Bearer and **W.A. Suk**, eds. 1995. Preventing Child Exposures to Environmental Hazards: Research and Policy Issues. *Environmental Health Perspectives*, Vol.103, Suppl. 6.

Blaha, K, M. Cikrt, D.O. Carpenter, and **W.A. Suk**, eds. 1994. Proceedings of the conference on Hazardous Wastes - Exposure, Remediation and Policy. *Central European Journal of Public Health*, Vol. 2, 1994.

Costa, M., O. Cantoni, T. Rossman, and **W.A. Suk**, eds. 1994. The Proceedings of the Second International Meeting on Molecular Mechanisms of Metal Toxicity and Carcinogenicity. *Environmental Health Perspectives*, Vol. 102, Suppl.3.

Anderson, S., L.R. Shugart, and **W.A. Suk**, eds. 1994. The Proceedings of the Napa Conference on Genetic and Molecular Ecotoxicology. *Environmental Health Perspectives*, Vol. 102, Suppl. 12.

Sandhu, S.S., W.R. Lower, F.J. de Serres, **W.A. Suk**, and R.R. Tice, eds. 1990. *In Situ* Evaluation of Biological Hazards of Environmental Pollutants. *Environmental Science Research Series*, Vol. 38. Plenum Press, New York and London.

#### **Book and Monograph Chapters (since 1996):**

**Suk, W.A.** 2007. Hazardous Waste: Assessing, Detecting and Remediation. *In* Public Health and Preventive Medicine, 15th edition. R. B. Wallace (ed.) Stamford, CT: Appleton & Lange.

**Suk, W.A.** and S.H. Wilson. 2002. Overview and Future of Molecular Biomarkers of Exposure and Early Disease in Environmental Health. *In* Biomarkers of Environmentally Associated Disease. Wilson, S.H. and W.A. Suk, eds. CRC Press LLC/Lewis Publishers, Boca Raton, FL: 3-15.

**Suk, W.A.** 1998. Hazardous Waste and Radioactive and Mixed Waste. *In* Public Health and Preventive Medicine, 14th edition. R. B. Wallace (ed.) Stamford, CT: Appleton & Lange.

**Suk, W.A.**, B.E. Anderson, and C. Thompson. 1998. Introduction. *In* Integrated Approaches for Studying Hazardous Substances. *Environmental Health Perspectives*, Vol.106, Supplement 4: 935-936.

Heindel, J. J., G.W. Collman, and **W.A. Suk**. 1998. Endocrine Disruptors: Extrapolation From Wildlife to Human Effects. *In* Principles and Processes for Evaluating Endocrine Disruption in Wildlife. Society of Environmental Toxicology and Chemistry Press, Pensacola, FL: 335-347.

**Suk, W.A.**, G. Collman, and T. Damstra. 1996. Human Biomonitoring: Research Goals and Needs. *Environmental Health Perspectives*, Vol. 104, Supplement 3: 479-483.

## **Editorials:**

**Suk, W.A.** 2002. Beyond *The Bangkok Statement*: Research Needs to Address Environmental Threats to Children's Health. *Environmental Health Perspectives*, Vol. 110, No. 6: A284-286.

Van Houten, B., J. Phelps, M. Barnes, and **W.A. Suk**. 2000. Evaluating Scientific Impact. *Environmental Health Perspectives*, Vol. 108, No. 9: A392-393.

**W.A. Suk** and B.E. Anderson. 1999. A Holistic Approach to Environmental Health Research. *Environmental Health Perspectives*, Vol.107, No.7: A338-A339.

## **PRESENTATIONS AND SESSION CHAIRS (selected, since 1994)**

Invited Plenary Speaker, "Technologies for Improved Risk Stratification and Disease Prevention: Future Directions for the Superfund Basic Research Program/NIEHS," at the 12<sup>th</sup> International Pacific Basin Consortium Conference, to be held October 26-29, 2007, Beijing, China.

Invited Speaker, "Environmental Threats to Children's Health: Role of Biomarkers, Research Needs and Future Directions," Symposium on Biomarkers in Children: Advances and Implications; Invited Speaker, "Strategies for Addressing Global Environmental Health Concerns," Symposium on Models for International Collaboration; International Society of Environmental Epidemiology annual meeting, to be held September, 5-9, 2007, Mexico City, Mexico.

Invited Keynote Speaker, "Strategies for Addressing Global Environmental Health Concerns," the 5<sup>th</sup> International Conference on Environmental Mutagens in Human Populations," May 20-24, 2007, Antalya, Turkey.

Invited Speaker, "Environmental Health Sciences Advanced Technology and Tools in Service to Vulnerable Communities: the Superfund Basic Research Program, Data Resource Portal, and Emergency Preparedness," NATO Advanced Research Workshop: Decision Support for Natural Disasters and Intentional Threats to Water Security, April 22-25, 2007, Dubrovnik, Croatia.

Invited Plenary Speaker, "Children's Special Vulnerability to Environmental Exposure Burdens;" Scientific Session speaker, "Environmental Threats to Children's Health," the "II International Conference: Healthy Environments, Healthy Children – Increasing Knowledge and Taking Action," November 14-16, 2005, Buenos Aires, Argentina.

Invited Speaker, "Incorporation of Biomarker Data Into Risk Assessment/ Risk Management and Public Health Practices," the "International Workshop on the Use of Biomarkers in Children," November 17-18, 2005, Buenos Aires, Argentina.

Invited Keynote Lecture, "Environmental Threats to Children's Health: Research Needs and Future Directions for Central Asia to Reduce Exposure and Diseases in Children," the conference on



“Children’s Environmental Health in Central Asia and the Middle East,” April 25-28, 2005, Almaty, Kazakhstan.

Invited Plenary Speaker, ATranslating Genomics to Reduce Risk of Exposure and Disease Incidence,@ and, Symposia Chair, Gene-Environment Interaction, AThe 5th Princess Chulabhorn International Science Congress: Evolving Genetics and Its Impact on the World,@ August 16-20, 2004, Bangkok, Thailand.

Invited Speaker, ATechnologies for Improved Risk Stratification and Disease Prevention: Future Directions for NIEHS,@ Institute of Medicine Roundtable on Environmental Health Sciences, Research, and Medicine, Technology and Environmental Health: Implication of Nanotechnology, May 27, 2004, Washington, D.C.

Session Chair, “Emerging Issues in Children=s Health: International Perspectives,” and Invited Speaker, AGlobal Environmental Threats to Children=s Health: Research Needs and Future Directions@ , “21st International Neurotoxicology Conference,” February 10-13, 2004, Honolulu, HI.

Invited Keynote Speaker, AInterdisciplinary Research: Translation of Genomics to Reduce Risk,@ December 7, 2003, Fred Hutchinson Cancer Research Center, Seattle, WA.

Keynote Speaker, AEnvironmental and Health Impacts of TCDD: Research and Development Opportunities,@ “U.S.-Vietnam Scientific Workshop on Dioxin Screening, Remediation Methodologies and Site Characterization,” November 2-5, 2003, Hanoi, Vietnam.

Invited Speaker and Co-Chair, AEnvironmental Hazards to Children=s Health in the Modern World.” AChildren=s Environmental Health@ session at the “4th International Conference on Environmental Mutagens in Human Populations,” May 4-8, 2003, Florianopolis-SC, Brazil.

Invited Speaker, AThe Superfund Basic Research Program: An Interdisciplinary Model to Reduce Risks and Prevent Exposures,” October 1, 2002, Department of Environmental Health, Boston University, Boston, MA.

Invited Keynote Speaker, AThe Superfund Basic Research Program: A Model for Meeting the Interdisciplinary Research Needs of the Nation,” Bioremediation and Biodegradation: Current Advances in Reducing Toxicity, Exposure and Environmental Consequences,” June 9-12, 2002, Asilomar, Pacific Grove, CA.

Invited Session Chair, “The Second PCB Workshop: Recent Advances in the Environmental Toxicology and Health Effects of PCBs,” May 7-11, 2002, Brno, Czech Republic.

Invited Participant, “Vietnam-United States Scientific Conference on Human Health and Environmental Effects of Agent Orange/Dioxins,” March 4-8, Hanoi, Vietnam.

Invited Speaker, "The Superfund Basic Research Program: A Model for Interdisciplinary Research to Reduce Risk and Prevent Exposures," January 15, 2002, Division of Biology and Medicine, Brown University, Providence, RI.

Invited Speaker, "An Interdisciplinary Approach: Translating Environmental Health Research for Risk Reduction and Improvements in Public Health," School of Public Health, University of Alabama, April 18, 2001, Birmingham, AL.

Plenary Speaker, "Human Health Effects Related to Chemical Mixtures, Application of Technology to Chemical Mixture Research," January 9-11, 2001, Colorado State University, Fort Collins, CO.

Invited Keynote Speaker, "Multidisciplinary Research: Translation of Genomics to Reduce Risk," National Academy of Sciences' "Workshop on Environmental Contamination, Biotechnology, and the Law: The Impact of Emerging Genomic Information." August 16, 2000, Washington, D.C.

Invited Speaker, "The Burden of Environmental Exposures and Disease in Children," July 21, 2000, Molecular Epidemiology Unit, School of Medicine, University of Leeds, Leeds, United Kingdom.

Keynote Speaker, "The Global Burden of Environmental Disease in Children," at the conference "Environmental Threats to the Health of Children," April 9-11, 2000, Manila, Philippines.

Invited Speaker, "Preventing Exposure and Reducing Risk: A Multidisciplinary Approach to Addressing Border Health Issues," "International Consortium for the Environment Conference Border Health: Making a Difference," March 11-15, 2000, San Antonio, TX.

Invited Speaker, "Physiological, Anatomical, Biochemical and Genetic Differences between Children and Adults," "Exposure Assessment in Children: A Consumer Exposure Workshop," September 9-10, 1999, National Chemicals Inspectorate (KemI), Solna, Sweden.

Keynote Speaker, "The Role for Ecological Research in a Multidisciplinary Research Program," at the "Conference on Wildlife Applications to Remediation Decision-Making," August 17-19, 1999, Denver, CO.

Invited Speaker, "Multidisciplinary Research: Translating Environmental Health Sciences for Risk Reduction and Improvements in Public Health," Department of Environmental Sciences and Engineering, School of Public Health, University of North Carolina, November 30, 1998, Chapel Hill, NC.

Session Chair, "Ethical, Legal and Social Implications of Genomic Research on Populations Exposed to Environmental Toxins," November, 1998, Boston, MA.

Plenary Speaker and Session Chair, "United States/Mexico Conference on Hazardous Waste Management and Technologies," August 9-11, Tucson, AZ.

Keynote Address, “Eulogy for Karen Wetterhahn,” Second International Symposium on Metals and Genetics, May 26-29, 1998, Toronto, Canada.

Keynote Address, “Priority Areas, Programs, and Partnerships for Evaluating Male Reproductive Hazards,” Environmental Exposures and Male Reproductive Health, May 14-15, 1998, New York, NY.

Invited Speaker, National Environmental Policy Institute-sponsored Workshop on Superfund Basic Research: Integrating State and Local Needs and Perspectives, May 6, 1998, Washington, DC.

Invited Speaker, “Children as a Particularly Vulnerable Population to Exposure to Hazardous Environmental Contamination”; Session Chair, International Conference on Health Effects of Hazardous Waste Remediation Technologies in Central and Eastern Europe, November 16-20, 1997, Prague, Czech Republic.

Invited Speaker, “Preventing Exposure and Reducing Risk: A Multidisciplinary Approach,” Department of Environmental and Industrial Health, School of Public Health, University of Michigan, September 29, 1997, Ann Arbor, MI.

Invited Working Group Co-Chair, Fogarty International Center-sponsored U.S.-Mexico-Canada Research Development Workshop on Precursors and Consequences of Emerging and Re-emerging Infectious Diseases in North America, September 17-19, 1997, Bethesda, MD.

Chair, Opening Session and Speaker, “A Vision for the Next Ten Years”; Closing Session, Superfund Basic Research Program: A Decade of Improving Health Through Multi-Disciplinary Research, February 23-26, 1997, Chapel Hill, NC.

Invited Speaker, “Genes and the Environment: Their Impact on Children’s Health,” First National Research Conference on Children’s Environmental Health: Research, Practice, Prevention, Policy, February 21-23, 1997, Washington, DC.

International Conference Chair, 1996 Pacific Basin Conference on Hazardous Waste, November 4-8, Kuala Lumpur, Malaysia.

Invited Roundtable Discussant on “Future Research Needs and Intervention, Carcinogenesis from Environmental Pollution: Assessment of Human Risk and Strategies for Prevention Conference,” October 6-9, 1996, Budapest, Hungary.

Invited Speaker, “Multidisciplinary Strategy for Reducing Risk: Successfully Crossing Boundaries,” School of Hygiene and Public Health, Johns Hopkins University, September 26, 1996, Baltimore, MD.

Invited Keynote Speaker, “Bionutrition and Research,” Modulation of Chemical Toxicity and Risk Assessment, June 9-12, 1996, Tucson, AZ.

Invited Speaker/ Session Chair, "International Conference on Pediatric Environmental Health," May 8-10, 1996, Sosnowiec, Poland.

Invited Keynote Speaker, "Extrapolation from Wildlife Effects to Human Effects;" Session Chair, "Principles and Processes for Evaluating Endocrine Disruption in Wildlife," March 16-19, 1996, Kiawah Island, SC.

Invited Forum Chair, "2nd International Conference on Environmental Mutagens in Human Populations," August 21-25, 1995, Prague, The Czech Republic (Forum entitled "Identification of Human Populations at Risk").

Invited Session Chair, "1995 Pacific Basin Conference on Hazardous Waste," May 7-12, 1995, Edmonton, Alberta, Canada.

Invited Working Group Leader, joint U.S.-Mexican conference on "The Environment and Health," March 1995, Mexico City, Mexico.

Opening and Closing Remarks, Workshop entitled "Technology of (Superfund) Basic Research in Waste Site Remediation, March 22-24, 1995, Mare Island Naval Shipyard, CA.

Plenary Speaker, "Environmental Technologies: Status of the U.S. Federal Initiative," Workshop on Health and Hazardous Waste Issues Related to the U.S.-Mexico Border, August 27-30, 1994, Tucson, AZ.

Invited Speaker, "Exposure Assessment," International conference entitled Assessment and Remediation of Hazardous Waste in Eastern Europe, October 3-7, 1994, Prague, Czech Republic.

Invited speaker, "NIEHS Superfund Basic Research Program: Role of Ecotoxicology and Future Directions, Clemson University's The Institute of Wildlife and Environmental Toxicology, April 19, 1994, Clemson, SC.

Invited Speaker and Session Chair, "Workshop on the Sustainable Development in Urban Areas of the Americas," April 5-8, 1994, Santiago, Chile.

Invited Session Chair, "Technology Exchange: The Molecular/Clinical Interface," at "Preventing Child Exposures to Environmental Hazards: Research and Policy Issues," March 16-18, 1994, Washington, DC.

Invited Session Organizer and Chair, "Environmental Technologies to Reduce Exposures to and Toxicity of Hazardous Waste," at the 20th annual meeting of the U.S. EPA Risk Reduction Environmental Laboratory, March 15-17, 1994, Cincinnati, OH.

Invited Session Chair, "Health Effects from Exposures to Hazardous Wastes: Research Needs." "Symposium on Health Research and Needs to Ensure Environmental Justice," February 10-12, 1994, Arlington, VA.

